REMARKS

AMENDMENTS TO THE CLAIMS:

Claims 1 to 35 were cancelled. New Claims 36 to 69 were added. Claims 36 to 69 are pending.

Support for the newly added Claims 36 to 69 may be found in the specification as originally filed. Specifically, support for new Claims 36 thru 40, and new Claims 49 and 52 may be found in original Claims 1, and 11, the legend of Figures 1A-B in paragraph [0027], paragraph [0069], paragraph [0096], paragraph [0108], the ATCC Deposit Receipt submitted concurrently herewith, and throughout the application as originally filed. No new matter has been added.

Support for new Claims 41 thru 43, and new Claims 67 to 69 may be found in original Claims 7 to 10, and throughout the application as originally filed. No new matter has been added.

Support for new Claims 44 thru 46 may be found in paragraphs [0105], [0156], Example 3 of the instant specification, and throughout the application as originally filed. No new matter has been added.

Support for new Claims 47 and 48 may be found in original Claims 1, 11, in paragraphs [0071], [0090], [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, and throughout the application as originally filed. No new matter has been added.

Support for new Claims 50 and 51 may be found in paragraph [0053] and [0196] for the "contiguous" term; in Example 10 for 184 deletion mutant sequences of SEQ ID NO:2 that are "at least 352 contiguous amino acids" (e.g., from E92-L443 to M1-L443 in paragraph [0298], and from C352-L443 to M1-L443 in paragraph [0299]), [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph

[0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in Figures 1A-B, in SEQ ID NO:1 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants remind the Examiner that there is no requirement for a limitation to be explicitly supported word-for-word in the specification in order for the written description requirement to be satisfied. Rather, the M.P.E.P. states that claim limitations may be supported in the specification through "express, implicit, or inherent disclosure..." and that "there is no in haec verba requirement" (see M.P.E.P. 2163(I)(B))(emphasis added). Rather, the M.P.E.P. teaches that whether the written description requirement is met turns on whether "...a skilled artisan would have understood the inventor to be in possession of the claimed invention at the time of filing, even if every nuance of the claims is not explicitly described in the specification...See, e.g., Vas-Cath, 935 F.2d at 1563, 19 USPQ2d at 1116; Martin v. Johnson, 454 F.2d 746, 751, USPQ 391, 395 (CCPA 1972)(stating "the description need not be in institute in the same words"] to be sufficient"). (see M.P.E.P. 2163(II)(A)(3)(a))(emphasis added). No new matter has been added.

Support for new Claims 53 and 54 may be found in original Claims 5 and 6, in paragraphs [0289], [0298], in Example 10, and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "566 to 1648" of SEQ ID NO:1 encode amino acids "83 to 443" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Exhibit A provides SEQ ID NO:1 along with the regions encoding the MIST polypeptide of the present invention. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claims 55 and 56 may be found in original Claims 5 and 6, in paragraphs [0290], [0299], in Example 10, and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the

legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "320 to 1288" of SEQ ID NO:1 encode amino acids "1 to 323" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claims 57 and 58 may be found in paragraphs [0143], [0156], in Figure 11, and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "797 to 1279" of SEQ ID NO:1 encode amino acids "160 to 320" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claims 59 and 60 may be found in paragraphs [0143], [0156], in Figure 11, and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "1277 to 1648" of SEQ ID NO:1 encode amino acids "320 to 433" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claims 61 and 62 may be found in paragraph [0266], and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in

SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "1289 to 1540" of SEQ ID NO:1 encode amino acids "324 to 407" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claims 63 and 64 may be found in paragraphs [0286], [0299], in Figure 11, in Example 10, and in paragraphs [0157], [0166], [0173], Figure 12 and the legend of Figure 12 in paragraph [0038], Figure 13 and the legend of Figure 13 in paragraph [0039], Figure 14 and the legend of Figure 14 in paragraph [0040], Figure 15 and the legend of Figure 15 in paragraph [0041], in Examples 2 and 11, in SEQ ID NO:1 and 2 of the Sequence Listing as originally submitted, and throughout the application as originally filed. Applicants point out that nucleotides "320 to 1279" of SEQ ID NO:1 encode amino acids "1 to 320" of SEQ ID NO:2 which is apparent by reference to Figures 1A-B in conjunction with SEQ ID NO:2 and the Genetic Code. Submitted concurrently herewith is Exhibit A for the convenience of the Examiner. Applicants remind the Examiner of M.P.E.P. 2163(I)(B), which was referenced supra. No new matter has been added.

Support for new Claim 65 may be found in paragraphs [0049], [0050], [0051], [0058], [0092] of the instant specification, and throughout the application as originally filed. No new matter has been added.

Support for new Claim 66 may be found in paragraphs [0003], [0004], [0005], [0006], Figures 3A-B and the legend of Figures 3A-B in paragraph [0029], Figure 10 and the legend of Figure 10 in paragraph [0036], Figures 15A-B and the legend of Figures 15A-B in paragraph [0041], in Examples 1, 2, and 11 of the instant specification, and throughout the application as originally filed. No new matter has been added.

If any fee is due in connection herewith not already accounted for, please charge such fee to Deposit Account No. 19-3880 of the undersigned. Furthermore, if any extension of time not already accounted for is required, such extension is hereby petitioned for, and it is requested that any fee due for said extension be charged to the above-stated Deposit Account.

Respectfully submitted,

Bristol-Myers Squibb Company Patent Department P.O. Box 4000 Princeton, NJ 08543-4000 (609) 252-5289

Date: June 21, 2006

Stephen C. D'Amico Agent for Applicants Reg. No. 46,652



10801 University Bivil ● Manuscras, VA 20110-2209 ■ Telephone: 703-365-2700 ■ FAX: 703-365-2745

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED FURSUANT TO RULE 7.3
AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

To: (Name and Address of Depositor or Attorney)

Bristol-Myers Squibb Company Aun: Gena Whitney P.O. Box 4000 Princeton, NJ 08543-4000

Deposited on Behalf of: Bristol-Myers Squibb Company

Identification Reference by Depositor:

PCMV-SPORT2-human MIST clones: hMIST 7,8,12

PTA-2981

The deposit was accompanied by: __ a scientific description _ a proposed taxonomic description indicated above.

The deposit was received January 26, 2001 by this International Depository Authority and has been accepted.

AT YOUR REQUEST: X We will inform you of requests for the strain for 30 years.

The strain will be made available if a patent office signatory to the Budapest Tresty certifies one's right to receive, or if a U.S. Patent is issued citing the strain, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strain.

If the culture should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace it with living culture of the same.

The strain will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the culture cited above was tested January 31, 2001. On that date, the culture was viable.

International Depository Authority: American Type Culture Collection, Manassas, VA 20110-2209 USA

Signature of person having authority to represent ATCC:

Tanya Nunnally, Patent Specialist, Patent Depository

Date: Hebruary 5, 2001

cc: Leslie Semnian

BEST AVAILABLE COPY

EN/9

Exhibit A

1	CC	TAG	AGC	ĊAG	CAG	AGT	CAC	3GÇ'	IGC:	rgti	(AA)	CAA	CTT(CAT	3TC(ccc	TG	GT?	AGC	iggc -	60
61	ĄG	GTG	CTT	CTG'	r c r(GATO	CTG	3ÇT(CTC	CTTC	AC	CAC	rgtz	ACTO	ZAT(CAAJ	ATAC	⊒A Ç(CAAC	SATC	120
121	CC	CAG	AGT	CCA	AGA:	rcci	CTAC	CAAC	GGG	GCC	ZAGZ	AAA(GG2	ATG/	\GÇ7	TT	CTG#	\AG!	LAG C	CACT	180
101	GΑ	TGT	ΆλΑ	ATA	CCA	3GA/	· ·TT	TG	ACAT	reg <i>r</i>	AG	AAG	LTT.	ГТТ(FTG <i>I</i>	\TG0	CAC	CTC	GGZ	ATTT	240
241	GG	CCA	TAA'	TCT2	AGAZ	AGA(CAC	YTG(TG:	ATA	CAC	STTC	CAZ	AGT(CAT1	TAC	STCA	CATA	TTC	TTG:	300
301 1	CT	AAA	TTG	cro:	rgt(TTT(CAA: M	DD?	CTG# E	LATI	'GA! K	\GAT	P	PTC1 L	TAC T	CCC R	GCÇA Q	lgg1 V		P. R	360 14
361	ΑA	CTA	TGA	ACAC	3ĠC#	\GGG	CAZ	TAC	SAAA	GAC	'AAC	TAP	AGA	AGG	ነልጥረ	ממ"	.୯৫৯	لمنلجلة	מ מבי	חיידי מ	420
15	Т	M	N	R	Q	Ģ	И	R	ĸ	Т	T	К	R	G		N	D	L	K		34
421	ĊC	AGA.	ACT:	CAC	TCI	rgcç	AAA	AAA	ACAG	- GTÇ	ATO	GCC	TCC	CAI	CAA	TAG	TGC	CAC	'AGG	מיים:	480
35	Q	N	F	S	L	₽			R								A		G		54
481	GT.	ACC.	AGAC	SGAT	GA.	CAA	GCC	rer!	TCT	Aga'	CTC	ann:	אאר	- ! A A B	CTT		TOC	ייטעי	·	0007	540
55		Q				K									F				L	D	74
541	TG	GAG	CAA	AAGG	CCA	CAG	TGA	TGA	ATC A	מידט	TGZ	ጥር‡ል	cec	י. ידוים	ССТ	mrca	(23/27)	ארטיטי	ארא	CAC	600
75	G	A	ĸ	G	Н	S	D	D	מ	Y	D	D	P	E	L	R	M	E	E	T	94
501	ΑT	GGC	AGTO	CGAT	'T'AA	LAAT	· TTT	ACC	AGC	יככה	Grr	יים מידי	ממבי	നമു	አጥ <u>ሶ</u>	ע ליים.	הידות	TYC C	202	~~~	660
95	M		\$		ĸ					R				E		E		A		T	114
661	AC	ACT	ATTT	CAA	GGT	TGC	TAA	GGA	CAC	TCC	ĊĊТ	TCC	CTT	'2G2	_ር ልር	CAG	Gac	СТС	ጥስጥ	ىسى.	720
115	H		F														T	s	ï	S	134
721	ÇA'	rrg	BACA	GCC	GAC	:CTG	GAA	CAC	ACA	GAC	ĢAG	GTT	GGA	Dag	AGT	GGA	CAA	ACC	CAT	TTC	780
135	I	G	Q	P	T	W	N	T	Q		R	L	E	Ŕ	V	D	K	P	I	S	154
781	CA	AGG!	ACGT	'CAG	AAG	CCA	AAA	CAT	TAA	AGG.	AGA	TGC	ATC	CGT	AAG	AAA	GAA	CAA	GAT	TCC	84D
155	ĸ	D	V	R	S	Q	N	I	K	G	D	A	S	V	R	К	N	K	Ï	P	174
841	TT	FAC	CACC	TÇC	TCG	GCC	тст	CAT	AAC	ACT	TCC	GAA	GAA	GTA	CCA	ACC	ሮፕጥ	GCC	ככריי	TGA	900
175	L	P	P	P	R	P	ŗ.	I	Т	L.	P	к	IC	Y	Q	P	L	P	P	E	194
901	GC	CGG!	AGAG	CAG	CAG	GCC	ACC	TTT	ATC	TCA	3AG	ACA	CAC	СТТ	TCC	AGA	AGT	CCA	GAG	AAT	960
																					214

Exhibit A (Cont'd)

				٠			•														
961	GCC	CAC	TÇ	GA?	raac	CT,	raa(GG#	CT	AAC	TG	ĞGI	CCI	TGA	AGC	AGZ	AAZ	רבומו	ידיכי	ב מ∩תי	1020
215	P	s	Q	r	5	L	R	D	L	s	E	v		E	A	E	K				234
								_		•		٠	~				K	٧	•	п	234
•																					
1021	TAI	יככא	GNO	י. זמט!		-m/-		72 B C	mas								•			-	
235	NT	~	OAC	**	262.C	- I G&	WI.	-AA(TCF	rrcı	GTT	'AGA				TAC	TC	LAGA	GAT	TCC	1080
433	14	Q	ĸ	K,	P	E	Ş	T	H	L	Г	E	N	Q	N	T	Q	B	I	P	254
				•			•													_	
1081	AC1	TGC	CAT	TAC	CAC	TTC	TT	CATI	CAC	GAC	'AAG	CAA	CCA	CAG	TGT	GCA	ΔΑΣ	CAG	AGA	ተ ተ	1140
255	Ŀ	A	Ţ	S	s	5	S	F	T	Т	s	N	H	S	v	0	NT		D	н	274
									-	_	_			_	•	¥				11	2 / 41
				_																	
1141	TAC	:AGC	AGG	י. רבי:	YGC Z	יככר	י ירייטיי	- مانت	TCC	י מרוחי	030	3 TC		•				·			1200
275	R			v	^		~ * *	,,,,,		. I C.M	UAU	AIG	iliya -	الحالات	TCC	AGÇ	CAU				1200
	10	G	Ģ	1-1	4	2	-	S	ų	Q	ĸ	С	Õ	Р	P	A	S	Ċ	\$	P	294
				-			-			-				-			-				
1201	TCA	CGA	AAA	TAT	ACI	ĠĊÇ	CTA	AAT	ATA	CAC	AAG	CTG	GAG	ACC	ACC	TTŢ	'CCC	CAA	AAG	GTC	1260
295	H	Ę	N	I	L	P	Y	K	Y	T	Ś	W	R	Þ	P	F		к	R	s	314
																	-		••	_	
				_			_														
1261	TGA	TAG	AAA	GGA	тст	CCA	ינירש	ממח	TYZD	- Этс	מיים	ጣአጥ	سانياس	202	2002	~~~			~~~		1320
315	מ	Ŕ	к	ח	v			NT		TII Q	T.	~~1	100	~~~	MIN.	CAU	ر کاری				
		••		_	٧	¥	п	24	_	'n	¥	1	G	E	Y	S	R	Q	A	V	334
1				<u>. </u>			•			•				•							
1321	GGA	AGA				'GAA	GGA							CTT	'GGT	CCG	AGA	TTG	TTC	CAC	1380
334	E	È	A	F	M	ĸ	E	N	ĸ	D	Ģ	S	F	L	v	R	D	Ç	S	т	354
										_											
1381	AAA	ATC	CAA	GGA	AGA	.GCC	ĊTA	TÇT	TTT	GGC	TGT	GTT	TTA	ፐGA	GAA	CAA	<u>.</u> ДСТ	<u> </u>	רא אי	י. ייבויד	1440
355	K	s		E	E	Þ	Y	V	۲.	Δ	v	 -	v	E	N	K		Y	N	v	374
					_		_		_		-	•	•	-			٧	-	14	V	214
1441	ממת	አአጥ		· Corre				~~~						•			•			•	
1441	WWW	WWI.																			1500
375	ĸ	I	К	F	L	£	R	N	Õ	Q	P	A	L	G	T	Ğ	L	R	G	D	394
				•										-							
1501	TÇA	GAA	GTT	TGA	TTÇ	AGT	AGA	AGA	CAT	CAT	CGA	ACA	CTA	CAA	GAA'	TTT	TCC	CAT	TAT	ACT	1560
395		K	F		S		E	D	I		E			K		P	P	I	I	L	414
													_			_	•	-	-	-	TLT
				_																	
1561	λλτ	TCAT	TYZC	מגם	AGD.	ממד	ממ	ጥርር	COT	- ሶርአ	~~~	מגד	N ~ N	•	mas.		<u>.</u> .				
415	I	D		K		K															
413	-		G	K	ט	T.	T	G	٧	H	ĸ	ĸ	Q	C.	H	Г	T	Õ	₽	L	434
				•			•			•											
											GÇÇ'	rgg'	TCT'	TTG	TGT.	TAT	CTT	TGG:	rtt?	ACT	1680
435	P	L	${f T}$	R	H	L	L	P	L	*											443
										_											
1681	GGA	TTC	AGC	GCT	TCC	ATT	GTT	TTC	እ ጥ ጉ	CAT	ייים דייי	AAA	ልርተ	י רידםי	THE PER	гст	erre.	^A CT	יים איז		1240
													nu I	···	<u>-</u> .	ICI.	GIG	CCI.	. 444	100	1/40
	Gra	ייי מ מ	ייייניי	lodov- •	n r ~	,,,,,,		יבבט					OF	•			•			•	
17/1		- AL .	L L'I'	t III.	MHL	\mathbf{III}	للاتات	للاللال	MG.	HAAI	AAC	$\iota \cup T \mathfrak{l}$	LTA.	ΓΑΑΊ		ι CΑi	7TY	וגגוי	ላ እጥ <i>ና</i>	חגר	1000
1741	UCL	шų.															0.0	سممد	2277	-440	1000
1741	UNL		• • • •								•						010	Jreu	2714	-AC	1000
1741 1801											•						_			-AC	1600